

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Michio YAMAZAKI, et al.

Appln. No.:

Confirmation No. Unknown

Group Art Unit: Unknown

Filed: June 19, 2001

Examiner: Unknown

For: POLYMERIC FLUORESCENT SUBSTANCE AND POLYMER LIGHT-EMITTING  
DEVICE USING THE SAME

**PRELIMINARY AMENDMENT**

Commissioner for Patents  
Washington, D.C. 20231

Sir:

Prior to examination, please amend the above-identified application as follows:

**IN THE CLAIMS:**

**Please enter the following amended claims:**

3. (Amended) A polymer light emitting device, comprising a pair of electrodes composed of an anode and a cathode at least one of which is transparent or semitransparent, and at least one light emitting layer disposed between the electrodes, wherein the polymeric fluorescent substance of Claim 1 is contained in said light emitting layer.

4. (Amended) The polymer light emitting device according to Claim 3, further comprising a layer containing a conducting polymer disposed between one electrode and the light emitting layer so that the layer containing a conducting polymer is adjacent to said electrode.

9. (Amended) A flat light source obtained by using the polymer light emitting device of any of Claims 3 to 5.

10. (Amended) A segment display obtained by using the polymer light emitting device of any of Claims 3 to 5.

11. (Amended) A dot matrix display obtained by using the polymer light emitting device of any of Claims 3 to 5.

12. (Amended) A liquid crystal display obtained by using the polymer light emitting device of any of Claims 3 to 5 as a back-light.

**Please add the following new claims:**

13. A polymer light emitting device, comprising a pair of electrodes composed of an anode and a cathode at least one of which is transparent or semitransparent, and at least one light emitting layer disposed between the electrodes, wherein the polymeric fluorescent substance of Claim 2 is contained in said light emitting layer.

14. The polymer light emitting device according to Claim 13, further comprising a layer containing an conducting polymer disposed between one electrode and the light emitting layer so that the layer containing an conducting polymer is adjacent to said electrode.

15. The polymer light emitting device according to Claim 13, further comprising an insulation layer having a thickness of 2 nm or less disposed between one electrode and the light emitting layer so that the insulation layer is adjacent to said electrode.

16. The polymer light emitting device according to any of Claims 13 to 15, further comprising a layer comprising an electron transporting compound disposed between the cathode and the light emitting layer so that the layer comprising an electron transporting compound is adjacent to said light emitting layer.

17. The polymer light emitting device according to any of Claims 13 to 15, further comprising a layer comprising a hole transporting compound disposed between the anode and the light emitting layer so that the layer comprising a hole transporting compound is adjacent to said light emitting layer.

18. The polymer light emitting device according to any of Claims 13 to 15, further comprising a layer comprising an electron transporting compound and a layer comprising a hole transporting compound disposed between the cathode and the light emitting layer so that the layer comprising an electron transporting compound is adjacent to said light emitting layer, and the layer comprising a hole transporting compound is adjacent to said light emitting layer.

19. A flat light source obtained by using the polymer light emitting device of any of Claims 13 to 15.

20. A segment display obtained by using the polymer light emitting device of any of Claims 13 to 15.

21. A dot matrix display obtained by using the polymer light emitting device of any of Claims 13 to 15.

22. A liquid crystal display obtained by using the polymer light emitting device of any of Claims 13 to 15 as a back-light.

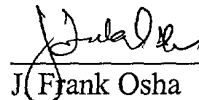
YAMAZAKI et al.  
Q64943  
Preliminary Amendment

**REMARKS**

Claims 1-22 are pending in the present application. Claims 9-12 have been amended to delete improper multiple dependencies. Claims 13-22 have been added to retain the same scope of coverage as in the claims 3 and 9-12 prior to the present Preliminary Amendment. The public should be advised that the present Preliminary Amendment is not considered or intended to be a narrowing amendment surrendering any equivalents.

Entry and consideration of this Amendment is respectfully requested.

Respectfully submitted,



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Date: June 19, 2001

**APPENDIX**

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**IN THE CLAIMS:**

**The claims are amended as follows:**

3. A polymer light emitting device, comprising a pair of electrodes composed of an anode and a cathode at least one of which is transparent or semitransparent, and at least one light emitting layer disposed between the electrodes, wherein the polymeric fluorescent substance of Claim 1 ~~or 2~~ is contained in said light emitting layer.

4. The polymer light emitting device according to Claim 3, further comprising a layer containing ~~an~~ conducting polymer disposed between one electrode and the light emitting layer so that the layer containing ~~an~~ conducting polymer is adjacent to said electrode.

9. A flat light source obtained by using the polymer light emitting device of any of Claims 3 to ~~8~~5.

10. A segment display obtained by using the polymer light emitting device of any of Claims 3 to ~~8~~5.

11. A dot matrix display obtained by using the polymer light emitting device of any of Claims 3 to ~~8~~5.

12. A liquid crystal display obtained by using the polymer light emitting device of any of Claims 3 to ~~8~~5 as a back-light.

**Claims 13 to 22 are added as new claims.**